

August 15, 1958

SPECIAL SEQUENCE CAMERA

Outline of Specifications

1. Complete System Consists of:

- a. Camera body
- b. 100 ft. magazine
- c. 200 " "
- d. 400 " "
- e. 1,000 " "
- f. 1" focal length lens f/2.3
- g. 2" " " " f/2.3
- h. 4" " " " 2.3
- i. 6" " " " 2.7
- j. 12" " " " 4.5
- k. 18 " " " " 5.6
- l. 24 " " " " 5.6
- m. Power pack including receiver and transmitter.
- n. Accessories such as rangefinder, boresight, lens support, filters, extension power cables.

Aug 20-58
 This unit was
 demonstrated to
 the A & D group
 this date. CWH
 Unit was returned
 to PSD. this date.
 CWH

2. System Characteristics:

- a. Unit operates on 24v. D. C. , as supplied by power pack.
- b. Lenses and magazines are readily interchangeable, making it suitable for a wide range of applications.

(Cont'd.)

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- c. Interval rate is variable over a wide range, so as to provide maximum coverage requirements.
- d. The entire system is compact and light in weight.
- e. The camera is designed for minimum power drain for maximum running time.
- f. Integral, through the lens, automatic exposure (shutter) control.
 - 1. The automatic shutter control ~~extends~~ the operation of the camera under poor light conditions (lens is usually set wide open).
 - 2. Under normal light conditions, the automatic shutter control sets the shutter at higher speeds thus yielding sharp pictures of moving subjects.
 - 3. Camera will remain in operation as light level decreases and will automatically shut-off when the light level is one stop below normal exposure. Correspondently, the camera will automatically turn-on as the light level reaches one stop below normal exposure.
 - 4. For moving subjects, the shutter speed can be set so as not to drop below 1/100 second.
 - 5. The 'ASA' film rating can be set by a control switch that is coupled to the automatic exposure control.
- g. Shutter can be manually set. Speeds range from 1/50 second to 1/1600 second.

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- h. Integral 'Sequence Timer' covering a wide range i. e. from (1) frame per second to (1) frame per hour. 10 different intervals available.
- i. Independent 'Burst Control Switch', i. e. 6 frames (1) second apart to occur at interval selected on sequence timer.
- j. The separate self-contained power pack is in a rigid carrying case. Batteries are re-chargeable.
- k. Camera can be focused through lens with a boresight.
- l. The camera has a viewfinder with scale for seven different interchangeable lenses.
- m. The 100' and 200' magazines can be daylight loaded.
- n. All magazines have:
 - a. Automatic footage dials (footage remaining)
 - b. Removable pressure plate
- o. The camera is completely automatic (following initial settings) and can be left unattended for long periods of time. *2) FILM PATH IS ENTIRELY WITHIN MAGAZINE (NO MOVING PARTS EXPOSED TO AIR)*
- p. Remote control by radio, the camera can be started or stopped.
- q. The size and weight of the camera is kept to a minimum and is designed around smallest area of film capacity (100').
- r. The camera has an exceptionally low noise level.
- s. Operating instruction marked directly on camera.

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ADDITIONAL FEATURES WHICH ARE TO BE ADDED:

1. DATA RECORDING TO INDICATE POINT AT WHICH
ALSO,
CAMERA SHUTS OFF, A DURING LONG PERIODS OF
OPERATION, ~~A DATA~~ AN HOURLY INDICATION IS
RECORDED ON THE FILM TO GIVE INDICATIONS OF
LAPSE OF TIME
2. VARIOUS ELEMENTS ARE BEING REDESIGNED FOR
GREATER RELIABILITY IN OPERATION AS WELL AS
SIMPLIFICATION FROM A MAINTENANCE POINT OF VIEW,
3. BATTERY CHARGER - MINIATURIZED DESIGN
FOR GOOD TRANSPORTATION HANDLING AND TO
WORK FROM 110 OR 220 V AC AND DC.